



School Technology Survey 2000

June 2000

The Vision....

All students, no matter which district they attend, will be able to achieve the Core Curriculum Content Standards because they will have unlimited access to people, to the vast array of curriculum and instruction offered in the state, and, in particular, to information and ideas, no matter where they exist.

...and

By the year 2002, it is expected that 15 educational technology benchmarks will be reached in every school district. All benchmarks are on the website at www.state.nj.us/education. Following are highlights:

- ◆ The ratio of students to multimedia computers will be five to one.
- ◆ Teachers will have e-mail as well as training opportunities to support infusion of technology into the curriculum.
- ◆ All classrooms will have fast and reliable Internet connections.
- ◆ Schools will have the infrastructure and equipment to support a technology rich environment that facilitates both local and distance learning opportunities for students, staff and the community.
- ◆ Networks throughout the state will be connected allowing schools, students and educators to communicate with each other freely.

*To view the survey questions and a complete report of the survey results, check the Department of Education web site at:
www.state.nj.us/njded/techno/survey.*

By the Numbers...

82%	Survey Response Rate for the School Technology Survey 2000
98%	Schools with Internet connectivity
95%	Schools that have Acceptable Use Policies (AUPs) in place
80%	Schools with web sites
79%	Schools that are using Internet filtering software
46%	Teachers that are viewed as having intermediate level skills in the use of technology in instruction
25%	Schools with students participating in interactive event-based activities

AND...

5 to 1 Student to multi-media computer ratio



Photo courtesy of Jersey City School District

County Student to All Computers

	1999	2000
ATLANTIC	5.8 to 1	4.3 to 1
BERGEN	4.7 to 1	4.4 to 1
BURLINGTON	5.5 to 1	4.1 to 1
CAMDEN	4.2 to 1	4.7 to 1
CAPE MAY	5.4 to 1	3.7 to 1
CUMBERLAND	4.4 to 1	3.2 to 1
ESSEX	6.0 to 1	5.1 to 1
GLOUCESTER	5.1 to 1	4.4 to 1
HUDSON	5.8 to 1	5.0 to 1
HUNTERDON	5.0 to 1	3.4 to 1
MERCER	4.6 to 1	4.1 to 1
MIDDLESEX	6.5 to 1	5.0 to 1
MONMOUTH	5.3 to 1	4.7 to 1
MORRIS	4.6 to 1	4.8 to 1
OCEAN	7.0 to 1	5.3 to 1
PASSAIC	6.7 to 1	5.4 to 1
SALEM	5.3 to 1	3.9 to 1
SOMERSET	5.3 to 1	4.3 to 1
SUSSEX	6.0 to 1	5.2 to 1
UNION	5.2 to 1	4.4 to 1
WARREN	5.2 to 1	4.3 to 1
STATE TOTAL	5.4 to 1	4.6 to 1

Student to Computer Ratios



Photo courtesy of Paterson School District

Meeting the Vision



Commissioner David Hespe at the Burlington County Educational Technology Training Center (ETTC)

County Student to Multi-media Computers

	1999	2000
ATLANTIC	8.3 to 1	4.7 to 1
BERGEN	6.3 to 1	5.1 to 1
BURLINGTON	6.8 to 1	4.4 to 1
CAMDEN	5.5 to 1	5.4 to 1
CAPE MAY	7.5 to 1	4.2 to 1
CUMBERLAND	6.2 to 1	3.8 to 1
ESSEX	7.8 to 1	6.3 to 1
GLOUCESTER	6.7 to 1	5.0 to 1
HUDSON	7.0 to 1	5.3 to 1
HUNTERDON	6.8 to 1	4.0 to 1
MERCER	6.3 to 1	4.8 to 1
MIDDLESEX	10.2 to 1	6.3 to 1
MONMOUTH	7.5 to 1	5.4 to 1
MORRIS	6.1 to 1	5.7 to 1
OCEAN	8.4 to 1	6.6 to 1
PASSAIC	9.3 to 1	6.7 to 1
SALEM	7.1 to 1	4.6 to 1
SOMERSET	7.3 to 1	4.8 to 1
SUSSEX	7.7 to 1	6.2 to 1
UNION	6.7 to 1	5.0 to 1
WARREN	6.4 to 1	4.6 to 1
STATE TOTAL	7.2 to 1	5.3 to 1

****Multi-Media Computers - 486 and above (i.e. Pentium, Pentium II, Pentium III, Celeron, etc.); Mac 40 series (68040)- LCs starting with 575, all Centris and Quadra series, Power PC, G3 and G4.**



Vineland School District students at a distance learning session

<i>Schools with an Acceptable Use Policy (AUP) or Internet Filtering Software</i>		
County	Schools w/ AUP	Schools w/ Internet Filtering Software
ATLANTIC	90.8%	78.9%
BERGEN	94.6%	69.5%
BURLINGTON	93.6%	76.1%
CAMDEN	99.3%	75.0%
CAPE MAY	90.9%	84.8%
CUMBERLAND	97.8%	89.1%
ESSEX	96.4%	83.4%
GLOUCESTER	95.9%	83.8%
HUDSON	98.0%	84.3%
HUNTERDON	88.9%	66.7%
MERCER	82.4%	62.7%
MIDDLESEX	93.0%	72.8%
MONMOUTH	97.1%	93.4%
MORRIS	96.4%	79.0%
OCEAN	100.0%	89.8%
PASSAIC	79.2%	77.2%
SALEM	100.0%	94.4%
SOMERSET	98.6%	79.2%
SUSSEX	95.0%	65.0%
UNION	97.6%	84.3%
WARREN	100.0%	60.0%
STATE TOTAL	94.8%	78.9%

Schools with Students Participating in Interactive Event-Based Activities

County	Percentage of Schools
ATLANTIC	42.1%
BERGEN	19.7%
BURLINGTON	13.8%
CAMDEN	16.2%
CAPE MAY	90.9%
CUMBERLAND	28.3%
ESSEX	16.6%
GLOUCESTER	24.3%
HUDSON	36.3%
HUNTERDON	40.0%
MERCER	17.6%
MIDDLESEX	23.4%
MONMOUTH	27.2%
MORRIS	21.0%
OCEAN	39.8%
PASSAIC	14.9%
SALEM	19.4%
SOMERSET	34.7%
SUSSEX	15.0%
UNION	29.1%
WARREN	25.7%
STATE TOTAL	25.1%

Information on the safe and ethical use of computers is provided on the web site and was developed in partnership with the New Jersey State Police. This site is an outcome of the High Technology Crimes and Interactive Services Protection Act.

www.state.nj.us/njded/techno/htcrime/

Teachers Skill Level in the Use of Technology in Instruction
(Average Percent at Each Skill Level)

County	Beginner	Intermediate	Advanced	Instructor
ATLANTIC	32%	47%	19%	6%
BERGEN	26%	49%	23%	7%
BURLINGTON	27%	48%	21%	6%
CAMDEN	28%	50%	21%	5%
CAPE MAY	23%	53%	20%	7%
CUMBERLAND	33%	47%	15%	6%
ESSEX	40%	41%	17%	6%
GLOUCESTER	22%	49%	23%	7%
HUDSON	36%	44%	18%	6%
HUNTERDON	29%	48%	20%	9%
MERCER	35%	43%	20%	6%
MIDDLESEX	38%	41%	18%	5%
MONMOUTH	22%	50%	24%	7%
MORRIS	32%	44%	21%	7%
OCEAN	26%	49%	21%	7%
PASSAIC	46%	42%	13%	5%
SALEM	26%	53%	22%	7%
SOMERSET	24%	48%	24%	7%
SUSSEX	27%	48%	19%	7%
UNION	26%	45%	24%	8%
WARREN	19%	52%	22%	8%
STATE	30%	46%	20%	6%

Staff Development

Staff development across the state is supported by New Jersey's county-based ETTCs. The department awarded a total of \$10 million in three-year grants to local school districts in each of the state's 21 counties to provide Educational Technology Training Centers (ETTCs) as county-based resources that offer educators professional development opportunities. Funded by the federal Goals 2000 program, the ETTCs contain demonstration technology equipment and offer training programs to assist teachers in implementing the Core Curriculum Content Standards.

ATLANTIC www.acetc.stockton.edu
BERGEN www.bergen.org/ETTC
BURLINGTON www.lr.k12.nj.us/ETTC/
CAMDEN www.ccts-etc.org/ettc
CAPE MAY www.capemaytech.net/ettc
CUMBERLAND www.cumberland.tec.nj.us/ettc/
ESSEX www.somds.k12.nj.us/~ettc
GLOUCESTER www.gc-etc.org
HUDSON www.jerseycity.k12.nj.us/
HUNTERDON www.hcrhs.hunterdon.k12.nj.us/ettc
MERCER ettc.prs.k12.nj.us

MIDDLESEX www.techtrain.org
MONMOUTH www.mcv.mcvsd.k12.nj.us/ettc
MORRIS www.mcvts.org/ettc/ettpage.htm
OCEAN www.etc-ocean.org
PASSAIC www.pcti.tec.nj.us/pcttc
SALEM www.salemettc.org
SOMERSET www.scti.org/ETTC
SUSSEX www.sussex.tec.nj.us/ettc
UNION www.ucvts.tec.nj.us/ettc
WARREN www.warrennet.org/ettc

Instructional Computers*

(These are all computers located in labs, classrooms or library media centers.)

County	Percent of instructional computers in classrooms
ATLANTIC	68.5%
BERGEN	55.9%
BURLINGTON	56.8%
CAMDEN	55.9%
CAPE MAY	64.8%
CUMBERLAND	56.9%
ESSEX	50.3%
GLOUCESTER	53.6%
HUDSON	61.0%
HUNTERDON	60.2%
MERCER	60.4%
MIDDLESEX	58.9%
MONMOUTH	57.6%
MORRIS	47.8%
OCEAN	54.6%
PASSAIC	53.0%
SALEM	54.2%
SOMERSET	57.9%
SUSSEX	52.6%
UNION	66.3%
WARREN	55.7%
STATE TOTAL	57.0%

Internet Access

County	Schools*	Classrooms*	Students
ATLANTIC	94.7%	82.8%	86.8%
BERGEN	96.4%	69.7%	84.0%
BURLINGTON	98.2%	94.2%	97.2%
CAMDEN	99.3%	87.5%	91.9%
CAPE MAY	100.0%	86.0%	93.2%
CUMBERLAND	100.0%	86.5%	87.7%
ESSEX	100.0%	43.3%	70.0%
GLOUCESTER	100.0	83.6%	94.0%
HUDSON	100.0%	78.7%	92.3%
HUNTERDON	100.0%	94.0%	85.6%
MERCER	100.0%	84.2%	89.8%
MIDDLESEX	94.9%	57.0%	84.5%
MONMOUTH	98.5%	71.6%	89.3%
MORRIS	98.6%	67.5%	90.8%
OCEAN	100.0%	60.0%	86.3%
PASSAIC	94.1%	51.4%	76.2%
SALEM	100.0%	85.1%	97.6%
SOMERSET	95.8%	82.3%	95.7%
SUSSEX	97.5%	71.9%	90.3%
UNION	98.4%	73.5%	85.6%
WARREN	100.0%	93.9%	95.4%
STATE TOTAL	98.1%	71.9%	86.9%

* Internet access is defined as at least one Internet connection of any type.

Teachers with E-Mail

County	Percentage *
ATLANTIC	89.0%
BERGEN	69.9%
BURLINGTON	94.5%
CAMDEN	85.5%
CAPE MAY	100.0%
CUMBERLAND	95.3%
ESSEX	70.4%
GLOUCESTER	89.3%
HUDSON	81.8%
HUNTERDON	80.1%
MERCER	93.2%
MIDDLESEX	90.0%
MONMOUTH	77.9%
MORRIS	83.5%
OCEAN	90.3%
PASSAIC	57.8%
SALEM	97.4%
SOMERSET	90.5%
SUSSEX	82.9%
UNION	86.0%
WARREN	96.7%
STATE TOTAL	82.7%

*Average percent of teachers per school with e-mail.

Schools with Web Sites*

County	Percent of Schools with Web sites
ATLANTIC	82.9%
BERGEN	68.6%
BURLINGTON	92.7%
CAMDEN	79.4%
CAPE MAY	84.8%
CUMBERLAND	78.3%
ESSEX	68.9%
GLOUCESTER	90.5%
HUDSON	57.8%
HUNTERDON	84.1%
MERCER	80.4%
MIDDLESEX	84.8%
MONMOUTH	75.0%
MORRIS	82.6%
OCEAN	96.6%
PASSAIC	76.2%
SALEM	94.4%
SOMERSET	90.3%
SUSSEX	77.5%
UNION	83.5%
WARREN	94.3%
STATE TOTAL	79.6%

*Based on the number of schools that supplied a URL. If no URL was given, no web site was assumed.



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For more in-depth
detail on the
survey:
[www.state.nj.us/
njded/techno/survey/](http://www.state.nj.us/njded/techno/survey/)

Survey Response Rate

County	Total Schools*	Reported	Percent Reported
ATLANTIC	80	76	95.0%
BERGEN	272	223	82.0%
BURLINGTON	139	109	78.4%
CAMDEN	166	136	81.9%
CAPE MAY	38	33	86.8%
CUMBERLAND	56	46	82.1%
ESSEX	239	193	80.8%
GLOUCESTER	82	74	90.2%
HUDSON	125	102	81.6%
HUNTERDON	50	44	88.0%
MERCER	108	51	47.2%
MIDDLESEX	184	158	85.9%
MONMOUTH	182	136	74.7%
MORRIS	154	138	89.6%
OCEAN	106	88	83.0%
PASSAIC	131	101	77.1%
SALEM	36	36	100.0%
SOMERSET	80	72	90.0%
SUSSEX	47	40	85.1%
UNION	156	127	81.4%
WARREN	42	35	83.3%
STATE	2,473	2,018	81.6%

*Includes charter schools.

The survey results indicate that New Jersey is well on its way to becoming a beacon in the technological age. The commitment of the Governor, the Legislature, the Department of Education, school districts, their principals and teachers, parents, the business community and citizens will assure that our students are well prepared for living and working in tomorrow's world.

This is the second year that the New Jersey Department of Education has conducted this technology survey. The department knows that it is important to assess current capabilities because of the numerous educational technology initiatives in the state. Funding and partnership programs include Distance Learning Network Aid, Educational Technology Training Centers, the Technology Literacy Challenge Fund, Tech Corps New Jersey, the Universal Service Fund and Bell Atlantic's Access New Jersey. (For details on all these programs, see www.state.nj.us/education/.)

Survey results indicate the acceleration of voice, video, and data services resulting in shared curricular offerings, ongoing projects and programs, and professional development opportunities. This technology capability expands the scope, quality, richness and diversity of curricula in all school districts and contributes to the redefining of teaching and learning in our state.